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5-18/03

Attorney Docket No. 1690.1001/DMP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Bin YANG, et al.

Application No.: 10/089,805

Group Art Unit: To Be Assigned

Filed: To Be Assigned

Examiner: To Be Assigned

For: PROCESS AND CIRCUIT ARRANGEMENT FOR DIGITAL FREQUENCY  
CORRECTION OF A SIGNAL

INFORMATION DISCLOSURE STATEMENT

RECEIVED

Assistant Commissioner for Patents  
Washington, D.C. 20231

OCT 02 2002

Technology Center 2600

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ Form PTO-1449.
- 1b. ☒ Copies of IDS citations.
- 1c. ☐ An English language copy of search report(s) from a counterpart foreign application or a PCT International Search Report.
- 1d. ☐ English language translation (complete or relevant portion(s)) attached to each non-English language publication.
- 1e. ☐ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.
- 1f. ☐ List of Copending Applications (ATTACHMENT 1(f), hereto).
- 1g. ☐ List of Additional Submitted Documents (ATTACHMENT 1(g), hereto).

2. ☒ This Information Disclosure Statement is filed under 37 CFR §1.97(b):

(Check either Item 2a or 2b or 2c or 2d)

- 2a. ☐ Within three months of the filing date of a national application other than a Continued Prosecution Application under § 1.53(d);
- 2b. ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application.
- 2c. ☒ Before the mailing of a first Office Action on the merits; or
- 2d. ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.

3. ☐ This Information Disclosure Statement is filed under 37 CFR § 1.97(c) after the period specified in paragraph 2 above but before the mailing date of any of a Final Office Action under § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise closes prosecution in the application, AND

*(Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)*

- 3a. ☐ The §1.97(e) Statement in Item 5 below is applicable; OR  
3b. ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:  
☐ enclosed.  
☐ to be charged to Deposit Account No. 19-3935.

4. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(d) after the period specified in paragraph 3 above, but on or before payment of the Issue Fee, AND

- 4a. ☐ The § 1.97(e) Statement in Item 5 below is applicable; AND  
4b. ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:  
☐ enclosed.  
☐ to be charged to Deposit Account No. 19-3935.

5. ☐ Statement under § 1.97(e) *(applicable if Item 3a or Item 4 is checked)*  
*(Check either Item 5a or 5b)*

- 5a. ☐ In accordance with 37 CFR § 1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.  
5b. ☐ In accordance with 37 CFR § 1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

6. ☐ This is a continuation/divisional/continuation-in-part application under 37 CFR § 1.53(b).

*(Check appropriate Items 6a and/or 6b)*

- 6a. ☐ Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No. \_\_, filed on \_\_, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, have been omitted pursuant to 37 CFR § 1.98(d).  
6b. ☐ Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No. \_\_, filed on \_\_, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, are provided herewith.

7. ☐ This is a continuation/divisional application under 37 CFR § 1.53(d) or Request for Continued Examination under 37 CFR 1.114.

*(Check either Item 7a or 7b)*

- 7a. ☐ The Issue Fee has not been paid.  
7b. ☐ A Petition to Withdraw from issue under 37 CFR §1.313(c) is filed concurrently herewith or has been granted. A continuation application under 37 CFR § 1.53(d) or Request for Continued Examination under 37 CFR 1.114, after payment of the Issue Fee is proper in accordance with 37 CFR § 1.53(d)(1)(ii) or 37 CFR 1.114(a), respectively.

8. ☐ This is a Supplemental Information Disclosure Statement.

*(Check either Item 8a or 8b)*

- 8a. ☐ This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f) supplements the Information Disclosure Statement filed on \_\_\_\_\_. A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on \_\_\_\_\_.  
8b. ☐ This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR § 1.97 and 1.98, mailed \_\_\_\_\_. (MPEP 609 C(1), Form ¶ 6.49, Rev. 1, Feb. 2000, pp. 600-107)

9. ☐ In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:

*(Check appropriate Items 9a, 9b, 9c and/or 9d)*

- 9a. ☐ satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office. (See U.S. Patent & Trademark Office's authorization in the Federal Register, Vol. 57, No. 12, January 17, 1992, at page 2031 (Reply to Comment 68).)  
9b. ☐ set forth in the application.  
9c. ☐ satisfied because an English language translation (complete or relevant portion(s)) is attached to each non-English language publication.  
9d. ☐ enclosed as Attachment 1(e), hereto.

10. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement and/or Petition to Deposit Account No. 19-3935.

Respectfully submitted,

Dated: July 26, 2002  
700 Eleventh Street, N.W., Suite 500  
Washington, D.C. 20001  
Telephone: (202) 434-1500  
Facsimile: (202) 434-1501

STAAS & HALSEY LLP

By: David M. Pitcher  
David M. Pitcher  
Registration No. 25,908

S&H Form: PTO/SB/17 (2/01)

<b>RESPONSE TO NOTICE OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)</b>		Attorney Docket No.	1690.1001/DMP																						
		Application Number	PCT/DE00/03601 (U.S. 10/089,805)																						
		Filing Date	10/11/2000 I.A.F.D.																						
		First Named Inventor	Bin YANG, et al.																						
		Group Art Unit	To Be Assigned																						
Title:	PROCESS AND CIRCUIT ARRANGEMENT FOR DIGITAL FREQUENCY CORRECTION OF A SIGNAL																								
<p>Pursuant to 35 U.S.C. 371 and in response to the U.S. the U.S. Designated/Elected Office Notice to File Missing Requirements mailed <u>July 11, 2002</u> for the above-identified application, enclosed are the following:</p> <p><input checked="" type="checkbox"/> RETURN COPY of Notice to File Missing Requirements under 35 U.S.C. 371.</p> <p><input checked="" type="checkbox"/> Executed Combined Declaration/Power of Attorney executed by the inventor for completing the missing parts of the subject application. The undersigned registered attorney states that the subject application is the application which the inventor executed by signing the attached Declaration.</p> <p><input type="checkbox"/> Formal Drawings (___ Sheets; Figs ____)</p> <p><input type="checkbox"/> English-language translation of application (with Translator's Statement (pages ___))</p> <p><input type="checkbox"/> Verified Statement Claiming Small Entity Status</p> <p>Enclosed is a payment of the following:</p> <table> <tr> <td><input type="checkbox"/> The filing fee as set forth in 37 C.F.R. §1.497(a) and (b)</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/> The additional claim(s) fee ( claims over 20)</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/> The additional independent claim(s) fee ( claims over 3)</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/> Multiple dependent claims</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/> Petition for Extension of Time ( ___-month)</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/> English language translation fee</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/> Surcharge as set forth in 37 C.F.R. §1.492(e)</td> <td>\$0.00</td> </tr> <tr> <td><b>SUBTOTAL FEES:</b></td> <td><b>\$0.00</b></td> </tr> <tr> <td><input type="checkbox"/> Reduction by 50% for filing by small entity (37 CFR 1.492(g))</td> <td>.00</td> </tr> <tr> <td><b>SUBTOTAL FEES:</b></td> <td><b>\$0.00</b></td> </tr> <tr> <td><b>TOTAL FEES DUE:</b></td> <td><b>\$0.00</b></td> </tr> </table> <p><del>(Surcharge Fee for Declaration previously paid on April 4, 2002)</del></p>				<input type="checkbox"/> The filing fee as set forth in 37 C.F.R. §1.497(a) and (b)	\$	<input type="checkbox"/> The additional claim(s) fee ( claims over 20)	\$	<input type="checkbox"/> The additional independent claim(s) fee ( claims over 3)	\$	<input type="checkbox"/> Multiple dependent claims	\$	<input type="checkbox"/> Petition for Extension of Time ( ___-month)	\$	<input type="checkbox"/> English language translation fee	\$	<input type="checkbox"/> Surcharge as set forth in 37 C.F.R. §1.492(e)	\$0.00	<b>SUBTOTAL FEES:</b>	<b>\$0.00</b>	<input type="checkbox"/> Reduction by 50% for filing by small entity (37 CFR 1.492(g))	.00	<b>SUBTOTAL FEES:</b>	<b>\$0.00</b>	<b>TOTAL FEES DUE:</b>	<b>\$0.00</b>
<input type="checkbox"/> The filing fee as set forth in 37 C.F.R. §1.497(a) and (b)	\$																								
<input type="checkbox"/> The additional claim(s) fee ( claims over 20)	\$																								
<input type="checkbox"/> The additional independent claim(s) fee ( claims over 3)	\$																								
<input type="checkbox"/> Multiple dependent claims	\$																								
<input type="checkbox"/> Petition for Extension of Time ( ___-month)	\$																								
<input type="checkbox"/> English language translation fee	\$																								
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<b>SUBTOTAL FEES:</b>	<b>\$0.00</b>																								
<b>TOTAL FEES DUE:</b>	<b>\$0.00</b>																								

Since the Notice to File Missing Requirements set an original due date of \_\_, petition is hereby made for an extension to cover the date this reply is filed for which the requisite fee is enclosed (1 month (\$110)); (2 months (\$390)); (3 months (\$890)); (4 months (\$1,390)); (5 months (\$1,890)):

**METHOD OF PAYMENT**

- ☐ Check enclosed as payment.
- ☐ Charge "TOTAL FEES DUE" to the Deposit Account No. 19-3935, below.

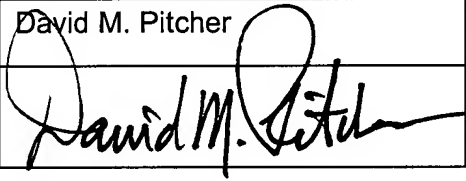
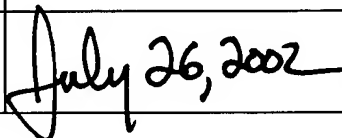
**AUTHORIZATION**

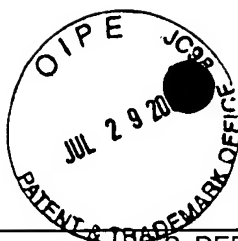
- ☒ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees under 37 CFR 1.16 or 1.17 necessary to maintain pendency of the present application to:

Deposit Account No.: 19-3935

Deposit Account Name: STAAS & HALSEY LLP

**SUBMITTED BY: STAAS & HALSEY LLP**

Typed Name	David M. Pitcher	Reg. No.	25,908
Signature		Date	



Sheet 1 of 1

FORM PTO-1449 <b>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</b>  <b>LIST OF REFERENCES CITED BY APPLICANT</b>  (Use several sheets if necessary)	ATTORNEY DOCKET NO. <b>1690.1001/DMP</b>	APPLICATION NO. <b>10/089,805</b>
	FIRST NAMED INVENTOR <b>Bin YANG, et al.</b>	
	FILING DATE <b>To Be Assigned</b>	GROUP ART UNIT <b>To Be Assigned</b>

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

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**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
	AG	0 545 546 A2	06/09/93	EUROPE			N/A	
	AH							
	AI							
	AJ							
	AK							
	AL							

**OTHER REFERENCES** (Including Author, Title, Date, Pertinent Pages, Etc.)

	AM	S. Nahm et al., "A CORDIC-BASED DIGITAL QUADRATURE MIXER: COMPARISON WITH A ROM-BASED ARCHITECTURE", ISCAS '98. PROCEEDINGS OF THE 1998 IEEE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS, Bd. 4, 31. Mai 1998 (1998-05-31), Seiten 385-388, XP000873520, New York, USA ISBN:0-7803-4456-1, Seite 386 Linke Spalte
	AN	

EXAMINER	DATE CONSIDERED
<b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	